

Express Mail No.: EV055649308US

PATENT  
H0004563

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| In re application of: Thomas Strangman<br>Serial No.: Filed herewith<br>Filing Date: Filed herewith<br>For: INTEGRAL TURBINE COMPONENT<br>COMPOSED OF A CAST SINGLE<br>CRYSTAL BLADE RING DIFFUSION<br>BONDED TO A HIGH STRENGTH DISK |  |
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**COMMENTARY RE INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

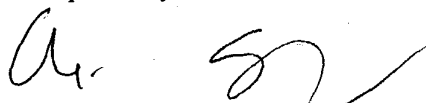
Dear Sir:

In accordance with 37 CFR §1.56, and in recognition of his duty to disclose to the United States Patent and Trademark Office relevant information known to be material to patentability, Applicant herewith submits a copy of the prior art listed on the attached Information Disclosure Statement (Form PTO-1449). The statement is not a representation that all of the information cited is necessarily effective as prior art against the application.

Applicant respectfully requests that the disclosed reference be made of record in the subject application.

Respectfully submitted,

Dated: 01/1/03



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PTO/SB/08A (10-01)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheet as necessary)

## *Complete if Known*

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|-------------------------------|---|----------------------|
| <b>Application Number</b>     |   | filed herewith       |
| <b>Filing Date</b>            |   | filed herewith       |
| <b>First Named Inventor</b>   |   | STRANGMAN, Thomas E. |
| <b>Group Art Unit</b>         |   |                      |
| <b>Examiner Name</b>          |   |                      |
| <b>Sheet</b>                  | 1 | of 1                 |
| <b>Attorney Docket Number</b> |   | H0004563             |

## **U.S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                               | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant<br>of Cited Document | Pages, Columns, Lines<br>Where Relevant<br>Passages or Relevant<br>Figures Appear |
|-----------------------|--------------------------|---|--------------------------------|---|---|
|                       |                          | Number - Kind Code <sup>2</sup> (if<br>known) |                                |   |   |
|                       |                          | US- 5,843,586                                 | 12/01/1998                     | SCHAEFFER, Jon C.                                     | Abstract  |
|                       |                          | US- 5,304,039                                 | 04/19/1994                     | CORDERMAN, Reed R.                                    | col. 1, lines 20-30   |
|                       |                          | US- 5,113,583                                 | 05/19/1992                     | JENKEL, Steven D., et al.                             | Fig. 1; col. 2, lines 20-44   |
|                       |                          | US- 5,061,154                                 | 10/29/1991                     | KINGTON, Harry L.                                     | col. 6, lines 29-47   |
|                       |                          | US- 4,921,405                                 | 05/01/1990                     | WILSON, Lloyd W.                                      | Abstract  |
|                       |                          | US- 4,605,452                                 | 08/12/1986                     | GEMMA, Anthony E., et al.                             | col. 2, lines 26-34   |
|                       |                          | US- 4,581,300                                 | 04/08/1986                     | HOPPIN III, George S., et al.                         | col. 1, lines 8-68; col. 2, lines 1-58  |
|                       |                          | US- 4,033,792                                 | 07/05/1977                     | GIAMEI, Anthony F., et al.                            | col. 1, lines 9-68; col. 2, lines 1-19  |
|                       |                          | US- 3,967,355                                 | 07-06-1976                     | GIAMEI, Anthony F., et al.                            | col. 1, lines 5-68; col. 2, lines 1-16  |
|                       |                          | US- 3,826,700                                 | 07-30-1974                     | CHU, Ting L.  | col. 2, lines 14-19   |
|                       |                          | US- 3,793,010                                 | 02-19-1974                     | LEMKEY, Franklin D., et al.                           | Claim 1   |
|                       |                          | US- 3,494,709                                 | 02-10-1970                     | PIEARCEY, B. J.                                       | Fig. 6  |
|                       |                          | US-   |                                |   |   |
|                       |                          | US-   |                                |   |   |
|                       |                          | US-   |                                |   |   |
|                       |                          | US-   |                                |   |   |
|                       |                          | US-   |                                |   |   |
|                       |                          | US-   |                                |   |   |
|                       |                          | US-   |                                |   |   |

## **FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Foreign Patent Document  | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines<br>Where Relevant<br>Passages or<br>Relevant<br>Figures Appear | T <sup>6</sup> |
|-----------------------|--------------------------|--|--------------------------------|--|--|----------------|
|                       |                          | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup><br>(if known) |                                |  |  |                |
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| <b>Examiner<br/>Signature</b> |  | <b>Date<br/>Considered</b> |  |
|-------------------------------|--|----------------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent documents. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard St.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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